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APPLICATION NO.	FILING DATE	. FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/786,379	02/25/2004	Hyung-Joon Kim	YOU102	3388	
7590 11/14/2007  Donald J. Perreault  Grossman, Tucker, Perreault & Pfleger, PLLC  55 South Commercial Street  Manchester, NH 03101			EXAMINER		
			CAMERON, ERMA C		
			ART UNIT	PAPER NUMBER	
			1792		
			. MAIL DATE	DELIVERY MODE	
			11/14/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/786,379	KIM ET AL.			
Office Action Summary	Examiner	Art Unit			
	/Erma Cameron/	1792			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	ldress		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
<ol> <li>Responsive to communication(s) filed on 31 Octobril 2a) This action is FINAL.</li> <li>Since this application is in condition for allower closed in accordance with the practice under Exercise.</li> </ol>	action is non-final. nce except for formal matters, pro		e merits is		
Disposition of Claims					
4) ⊠ Claim(s) 1-3,5 and 7-14 is/are pending in the a 4a) Of the above claim(s) is/are withdray  5) □ Claim(s) is/are allowed.  6) ⊠ Claim(s) 1-3,5 and 7-14 is/are rejected.  7) □ Claim(s) is/are objected to.  8) □ Claim(s) are subject to restriction and/or	vn from consideration.	·	·		
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 10.	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 Cl	• •		
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te			

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### **DETAILED ACTION**

### Response to Amendment

# Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. The rejection of Claim 6 under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention is withdrawn because claim 6 has been deleted.

#### Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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4. Claims 1-2 and 7-11 are rejected under 35 U.S.C. 102(e) as being anticipated by Reihs et al (6652669).

'669 teaches treating aluminum or Al alloy by coating with n-decanethiol in ethanol at 1 g/l (see Examples).

# Response to Arguments

The applicant has argued that the metal surface must first be coated with a noble metal adhesion promoter. The examiner disagrees. '669 clearly states in the Abstract, claim 1 and elsewhere that adhesion promoters are optional.

The applicant has argued that '669 does not disclose drying or curing. The examiner disagrees. Example 1 shows drying of the n-decanethiol/ethanol solution after application.

The applicant has argued that '669 appears to require treating or sealing in hot water. The examiner disagrees. Claim 1 clearly shows that hot water treatment is only one option out of several, and is not required.

5. Claims 1-3, 5, 7-11 and 13-14 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by JP 10 - 001784.

'784 teaches applying 1-octadecane thiol or other alkyl thiols to electro-galvanized steel, in a water-alcohol mixture at 5 millimoles (presumably in one liter), by dipping and drying (see Abstracts; [0007]-[0011] of translation).

# Response to Arguments

The applicant has argued that '784 teaches mercaptides or thiol/mercaptides as a coating. The examiner's position is that '784 teaches 1-octadecanethiol applied to galvanized steel as in Example 1, and that the thiol compound reacts with the zinc of the galvanized coating to form a mercaptide on the zinc (claim 1; [0006]). Because '784 teaches the same thiol cpd. being applied to galvanized steel in the same way as applicant is claiming, the coating that forms in both processes will inherently be the same.

6. The rejection of claims 1-2 and 7-11 under 35 U.S.C. 102(b) as being clearly anticipated by Nozawa et al (Corrosion Science, 39(9), pp 1625-1639, 1997) is withdrawn because of the amendment filed 10/31/2007.

The examiner agrees that Nozawa does not read on any of the metals of the independent claims.

### Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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8. Claims 3 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Reihs et

al (6652669).

'669 is applied here for the reason given above.

'669 teaches n-decanethiol. This is a homolog of the octadecanethiol of claim 3.

'669 does not teach that the immersion time is 3"-15', but it would have been obvious to

one of ordinary skill in the art to have optimized the contact time through no more than routine

experimentation.

9. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over JP 10 - 001784.

'784 is applied here for the reasons given above.

'784 fails to teach length of time for the dipping process, but it would have been obvious

to optimize the length of time because the dipping time is known to be a parameter that is

important to control in a coating step.

10. The rejection of Claims 3 and 12 under 35 U.S.C. 103(a) as being unpatentable over

Nozawa (Corrosion Science 39(9), pp 1625-1639, 1997) is withdrawn.

Conclusion

11. This is a RCE of applicant's earlier Application No. 10/786379. All claims are drawn to

the same invention claimed in the earlier application and could have been finally rejected on the

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grounds and art of record in the next Office action if they had been entered in the earlier application. Accordingly, THIS ACTION IS MADE FINAL even though it is a first action in this case. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as setforth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no, however, event will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to /Erma Cameron/ whose telephone number is 571-272-1416. The examiner can normally be reached on 8:30-6:00, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on 571-272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Erma Cameron/ Primary Examiner Art Unit 1792

November 13, 2007